

# DRILLS - METALWORKING

## Jobber Length Drills

### Straight Shank - High Speed Steel

### 118° Point - General Purpose

Designed for drilling of a wide variety of material.

**Black Oxide Surface Treatment** increases wear resistance, reduces galling and chip welding, improves chip flow and increases drill lubricant retention.

**Bright Finish** with polished flutes enhances chip ejection especially for aluminum and other non-ferrous materials.

#### STANDARD PACKAGE

##### Fractional Sizes

Sizes 1/64" thru 3/8" - 12 each  
 Sizes 25/64" thru 1/2" - 6 each  
 Sizes 33/64" thru 11/16" - 1 each

##### Letter Sizes

Sizes A thru V - 12 each  
 Sizes W thru Z - 6 each

**MINIMUM  
ORDER  
REQUIREMENT**

**STANDARD  
PACKAGE  
QUANTITY**

### LIST NO. 330, 330B & 330QI

#### FRACTIONAL SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	EDP NO.		
				330 TREATED	330B BRIGHT	330QI TREATED
1/64	.0156	3/16	3/4	80130	80281	-
1/32	.0312	1/2	1-3/8	80131	80282	-
3/64	.0469	3/4	1-3/4	80132	80283	-
1/16	.0625	7/8	1-7/8	80133	80284	85000
5/64	.0781	1	2	80134	80285	85001
3/32	.0937	1-1/4	2-1/4	80135	80286	85002
7/64	.1094	1-1/2	2-5/8	80136	80287	85003
1/8	.1250	1-5/8	2-3/4	80137	80288	85004
9/64	.1406	1-3/4	2-7/8	80138	80289	85005
5/32	.1562	2	3-1/8	80139	80290	85006
11/64	.1719	2-1/8	3-1/4	80140	80291	85007
3/16	.1875	2-5/16	3-1/2	80141	80292	85008
13/64	.2031	2-7/16	3-5/8	80142	80293	85009
7/32	.2187	2-1/2	3-3/4	80143	80294	85010
15/64	.2344	2-5/8	3-7/8	80144	80295	85011
1/4-E	.2500	2-3/4	4	80145	80296	85012
17/64	.2656	2-7/8	4-1/8	80146	80297	85013
9/32	.2812	2-15/16	4-1/4	80147	80298	85014
19/64	.2969	3-1/16	4-3/8	80148	80299	85015
5/16	.3125	3-3/16	4-1/2	80149	80300	85016
21/64	.3281	3-5/16	4-5/8	80150	80301	85017
11/32	.3437	3-7/16	4-3/4	80151	80302	85018
23/64	.3594	3-1/2	4-7/8	80152	80303	85019
3/8	.3750	3-5/8	5	80153	80304	85020
25/64	.3906	3-3/4	5-1/8	80154	80305	85021
13/32	.4062	3-7/8	5-1/4	80155	80306	85022
27/64	.4219	3-15/16	5-3/8	80156	80307	85023
7/16	.4375	4-1/16	5-1/2	80157	80308	85024
29/64	.4531	4-3/16	5-5/8	80158	80309	85025
15/32	.4687	4-5/16	5-3/4	80159	80310	85026
31/64	.4844	4-3/8	5-7/8	80160	80311	85027
1/2	.5000	4-1/2	6	80161	80312	85028



**BLACK OXIDE TREATED**

List No. 330

**MADE IN USA**

**BRIGHT FINISH**

List No. 330B

**MADE IN USA**

**BLACK OXIDE TREATED**

List No. 330QI

**IMPORT**

#### FRACTIONAL SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	EDP NO.		
				330 TREATED	330B BRIGHT	330QI TREATED
33/64	.5156	4-13/16	6-5/8	80162	-	-
17/32	.5312	4-13/16	6-5/8	80163	-	-
35/64	.5469	4-13/16	6-5/8	80164	-	-
9/16	.5625	4-13/16	6-5/8	80165	-	-
37/64	.5781	4-13/16	6-5/8	80166	-	-
19/32	.5938	5-3/16	7-1/8	80167	-	-
39/64	.6094	5-3/16	7-1/8	80168	-	-
5/8	.6250	5-3/16	7-1/8	80169	-	-
41/64	.6406	5-3/16	7-1/8	80170	-	-
21/32	.6562	5-3/16	7-1/8	80171	-	-
43/64	.6719	5-5/8	7-5/8	80172	-	-
11/16	.6875	5-5/8	7-5/8	80173	-	-

#### LETTER SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	EDP NO.		
				330 TREATED	330B BRIGHT	330QI TREATED
A	.2349	2-5/8	3-7/8	80174	80326	85029
B	.2380	2-3/4	4	80175	80327	85030
C	.2420	2-3/4	4	80176	80328	85031
D	.2460	2-3/4	4	80177	80329	85032
1/4-E	.2500	2-3/4	4	80145	80296	85012
F	.2570	2-7/8	4-1/8	80179	80331	85033
G	.2610	2-7/8	4-1/8	80180	80332	85034
H	.2660	2-7/8	4-1/8	80181	80333	85035
I	.2720	2-7/8	4-1/8	80182	80334	85036
J	.2770	2-7/8	4-1/8	80183	80335	85037
K	.2810	2-15/16	4-1/4	80184	80336	85038
L	.2900	2-15/16	4-1/4	80185	80337	85039
M	.2950	3-1/16	4-3/8	80186	80338	85040
N	.3020	3-1/16	4-3/8	80187	80339	85041
O	.3160	3-3/16	4-1/2	80188	80340	85042
P	.3230	3-5/16	4-5/8	80189	80341	85043
Q	.3320	3-7/16	4-3/4	80190	80342	85044
R	.3390	3-7/16	4-3/4	80191	80343	85045
S	.3480	3-1/2	4-7/8	80192	80344	85046
T	.3580	3-1/2	4-7/8	80193	80345	85047
U	.3680	3-5/8	5	80194	80346	85048
V	.3770	3-5/8	5	80195	80347	85049
W	.3860	3-3/4	5-1/8	80196	80348	85050
X	.3970	3-3/4	5-1/8	80197	80349	85051
Y	.4040	3-7/8	5-1/4	80198	80350	85052
Z	.4130	3-7/8	5-1/4	80199	80351	85053

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### STANDARD PACKAGE

Wire Gage Sizes

#1 thru #80 - 12 each

MINIMUM  
ORDER  
REQUIREMENT

STANDARD  
PACKAGE  
QUANTITY

### LIST NO. 330, 330B & 330QI

#### WIRE GAGE SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	EDP NO.		
				330 TREATED	330B BRIGHT	330QI TREATED
80	.0135	1/8	3/4	80280	80440	-
79	.0145	1/8	3/4	80279	80439	-
78	.0160	3/16	7/8	80278	80438	-
77	.0180	3/16	7/8	80277	80437	-
76	.0200	3/16	7/8	80276	80436	-
75	.0210	1/4	1	80275	80435	-
74	.0225	1/4	1	80274	80434	-
73	.0240	5/16	1-1/8	80273	80433	-
72	.0250	5/16	1-1/8	80272	80432	-
71	.0260	3/8	1-1/4	80271	80431	-
70	.0280	3/8	1-1/4	80270	80430	-
69	.0292	1/2	1-3/8	80269	80429	-
68	.0310	1/2	1-3/8	80268	80428	-
67	.0320	1/2	1-3/8	80267	80427	-
66	.0330	1/2	1-3/8	80266	80426	-
65	.0350	5/8	1-1/2	80265	80425	-
64	.0360	5/8	1-1/2	80264	80424	-
63	.0370	5/8	1-1/2	80263	80423	-
62	.0380	5/8	1-1/2	80262	80422	-
61	.0390	11/16	1-5/8	80261	80421	-
60	.0400	11/16	1-5/8	80260	80420	85114
59	.0410	11/16	1-5/8	80259	80419	85113
58	.0420	11/16	1-5/8	80258	80418	85112
57	.0430	3/4	1-3/4	80257	80417	85111
56	.0465	3/4	1-3/4	80256	80416	85110
55	.0520	7/8	1-7/8	80255	80415	85109
54	.0550	7/8	1-7/8	80254	80414	85108
53	.0595	7/8	1-7/8	80253	80413	85107
52	.0635	7/8	1-7/8	80252	80412	85106
51	.0670	1	2	80251	80411	85105
50	.0700	1	2	80250	80410	85104
49	.0730	1	2	80249	80409	85103
48	.0760	1	2	80248	80408	85102
47	.0785	1	2	80247	80407	85101
46	.0810	1-1/8	2-1/8	80246	80406	85100
45	.0820	1-1/8	2-1/8	80245	80405	85099
44	.0860	1-1/8	2-1/8	80244	80404	85098
43	.0890	1-1/4	2-1/4	80243	80403	85097
42	.0935	1-1/4	2-1/4	80242	80402	85096
41	.0960	1-3/8	2-3/8	80241	80401	85095



BLACK OXIDE TREATED  
List No. 330

MADE IN USA

BRIGHT FINISH  
List No. 330B

MADE IN USA

BLACK OXIDE TREATED  
List No. 330QI

IMPORT

#### WIRE GAGE SIZES

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	EDP NO.		
				330 TREATED	330B BRIGHT	330QI TREATED
40	.0980	1-3/8	2-3/8	80240	80400	85094
39	.0995	1-3/8	2-3/8	80239	80399	85093
38	.1015	1-7/16	2-1/2	80238	80398	85092
37	.1040	1-7/16	2-1/2	80237	80397	85091
36	.1065	1-7/16	2-1/2	80236	80396	85090
35	.1100	1-1/2	2-5/8	80235	80395	85089
34	.1110	1-1/2	2-5/8	80234	80394	85088
33	.1130	1-1/2	2-5/8	80233	80393	85087
32	.1160	1-5/8	2-3/4	80232	80392	85086
31	.1200	1-5/8	2-3/4	80231	80391	85085
30	.1285	1-5/8	2-3/4	80230	80390	85084
29	.1360	1-3/4	2-7/8	80229	80389	85083
28	.1405	1-3/4	2-7/8	80228	80388	85082
27	.1440	1-7/8	3	80227	80387	85081
26	.1470	1-7/8	3	80226	80386	85080
25	.1495	1-7/8	3	80225	80385	85079
24	.1520	2	3-1/8	80224	80384	85078
23	.1540	2	3-1/8	80223	80383	85077
22	.1570	2	3-1/8	80222	80382	85076
21	.1590	2-1/8	3-1/4	80221	80381	85075
20	.1610	2-1/8	3-1/4	80220	80380	85074
19	.1660	2-1/8	3-1/4	80219	80379	85073
18	.1695	2-1/8	3-1/4	80218	80378	85072
17	.1730	2-3/16	3-3/8	80217	80377	85071
16	.1770	2-3/16	3-3/8	80216	80376	85070
15	.1800	2-3/16	3-3/8	80215	80375	85069
14	.1820	2-3/16	3-3/8	80214	80374	85068
13	.1850	2-5/16	3-1/2	80213	80373	85067
12	.1890	2-5/16	3-1/2	80212	80372	85066
11	.1910	2-5/16	3-1/2	80211	80371	85065
10	.1935	2-7/16	3-5/8	80210	80370	85064
9	.1960	2-7/16	3-5/8	80209	80369	85063
8	.1990	2-7/16	3-5/8	80208	80368	85062
7	.2010	2-7/16	3-5/8	80207	80367	85061
6	.2040	2-1/2	3-3/4	80206	80366	85060
5	.2055	2-1/2	3-3/4	80205	80365	85059
4	.2090	2-1/2	3-3/4	80204	80364	85058
3	.2130	2-1/2	3-3/4	80203	80363	85057
2	.2210	2-5/8	3-7/8	80202	80362	85056
1	.2280	2-5/8	3-7/8	80201	80361	85055